

In the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A rotary connector comprising:
a stationary housing having a cylindrical portion;
a movable housing having a cylindrical portion and provided on said stationary housing so as to be rotatable relatively thereto; and
a flexible cable accommodated within a housing section formed between said stationary housing and said movable housing, a first end of the flexible cable fixed to the stationary housing and a second end of the flexible cable fixed to the movable housing, the flexible cable guided by a guide portion to the housing section; and
a temperature detector in contact with a portion of the flexible cable in the guide portion to detect a temperature of the flexible cable.
2. (Previously Presented) The rotary connector according to claim 1, wherein said temperature detector is provided in one of said cylindrical portion of said stationary housing and said cylindrical portion of said movable housing.
3. (Previously Presented) The rotary connector according to claim 1, wherein said rotary connector further comprises a holding member for holding said temperature detector and said holding member is provided in one of said cylindrical portion of said stationary housing and said cylindrical portion of said movable housing.
4. (Cancelled)
5. (Previously Presented) The rotary connector according to claim 1, wherein said rotary connector further comprises a pressing member arranged at the guide portion to depress said flexible cable against said temperature detector.
6. (Cancelled)

7. (Original) The rotary connector according to claim 5, wherein said pressing member includes an elastic portion having elasticity and presses said flexible cable via said elastic portion.

8. (Currently Amended) The rotary connector according to claim 1, wherein said temperature detector comprises one of a temperature sensor and a thermistor.

9-11. (Cancelled)

12. (Previously Presented) A rotary connector comprising:
a stationary housing;
a movable housing provided on said stationary housing so as to be rotatable relatively thereto;
a flexible cable accommodated within a housing section formed between said stationary housing and said movable housing, the flexible cable having conductors and an insulating film disposed on one side of the conductors; a first lead block connected to a first end of the flexible cable and a second lead block connected to a second end of the flexible cable; and
a temperature detector in contact with the flexible cable and mounted on the insulating film to detect a temperature of the conductors of the flexible cable.

13. (Cancelled)

14. (Previously Presented) The rotary connector according to claim 12, wherein said temperature detector is provided in said first lead block.

15. (Currently Amended) The rotary connector according to claim 12, wherein said temperature detector comprises one of a temperature sensor and a thermistor.

16-20. (Cancelled)

21. (Previously Presented) The rotary connector according to claim 1, wherein the movable housing comprises a holder having a first engagement portion in which the first lead block is contained and the guide portion, and the flexible cable

extends through the guide portion from the first engagement portion to the holding section.

22. (Previously Presented) The rotary connector according to claim 21, further comprising a pressing member, the flexible cable pressed against the temperature detector by the pressing member.

23. (Previously Presented) The rotary connector according to claim 22, wherein the pressing member includes a support portion and an elastic portion, and the flexible cable is pressed against the temperature detector by the elastic portion.

24. (Previously Presented) The rotary connector of claim 23, wherein a second groove-shaped engagement portion is contained in the holder and opposes the temperature sensor, and the support portion mates with the second engagement portion.

25. (Cancelled)

26. (Previously Presented) The rotary connector of claim 24, wherein the temperature detector is contained within a holding member, the holder has a cut-portion into which the holding member fits, the holding member has side walls with projections, the cut-portion has inner walls with recesses into which the projections fit.

27. (Previously Presented) The rotary connector of claim 1, wherein the temperature detector is contained within a holding member, the holder has a cut-portion into which the holding member fits, the holding member has side walls with projections, the cut-portion has inner walls with recesses into which the projections fit.

28. (Cancelled)

29. (Previously Presented) The rotary connector according to claim 12, wherein the first lead block has a recess at a plane contacting the flexible cable, and the temperature detector is arranged in the recess to contact the flexible cable.

30. (New) A rotary connector comprising:

a stationary housing;
a movable housing provided on the stationary housing so as to be rotatable relatively thereto;
a flexible cable accommodated within a housing section formed between the stationary housing and the movable housing, the flexible cable having conductors and an insulating film disposed on one side of the conductors;
a first lead block connected to a first end of the flexible cable and a second lead block connected to a second end of the flexible cable; and
a temperature detector arranged on one of the first and second lead blocks and mounted on the insulating film to detect a temperature of the conductors of the flexible cable,
wherein the lead block on which the temperature detector is arranged has a recess at a plane contacting the flexible cable, the temperature detector is arranged in the recess to contact the flexible cable, and the temperature detector has a surface coplanar with a surface of a base section of the lead block.

31. (New) The rotary connector according to claim 30, wherein the temperature detector comprises one of a temperature sensor and a thermistor.

32. (New) A rotary connector comprising:
a stationary housing having a cylindrical portion;
a holding member having a recess, the holding member mounted in the stationary housing;
a movable housing having a cylindrical portion and provided on said stationary housing so as to be rotatable relatively thereto;
a flexible cable accommodated within a housing section formed between said stationary housing and said movable housing, a first end of said flexible cable fixed to said stationary housing and a second end of said flexible cable fixed to said movable housing, the flexible cable guided by a guide portion to the housing section; and
a temperature detector exposed within said guide portion and in the recess and in contact with the flexible cable so as to detect a temperature of said flexible cable.

33. (New) The rotary connector according to claim 32, wherein said rotary connector further comprises a pressing member arranged at the guide portion so as to depress said flexible cable against said temperature detector.

34. (New) The rotary connector according to claim 32, wherein the temperature detector comprises one of a temperature sensor and a thermistor.

35. (New) A rotary connector comprising:
a stationary housing having a cylindrical portion;
a movable housing having a cylindrical portion and provided on said stationary housing so as to be rotatable relatively thereto; and
a flexible cable accommodated within a housing section formed between said stationary housing and said movable housing, a first end of the flexible cable fixed to the stationary housing and a second end of the flexible cable fixed to the movable housing, the flexible cable guided by a guide portion to the housing section, the guide portion having first and second walls that face each other in a radial direction;
a temperature detector having an exposed surface to detect a temperature of the flexible cable on the first wall of the guide portion;
a holding member for holding the temperature detector and the holding member provided in one of the cylindrical portion of the stationary housing and the cylindrical portion of the movable housing; and
a pressing member to depress the flexible cable against the temperature detector, the pressing member provided on the second wall of the guide portion such that the pressing member faces the temperature detector.

36. (New) The rotary connector according to claim 35, wherein the pressing member includes an elastic portion having elasticity and presses the flexible cable via the elastic portion.

37. (New) The rotary connector according to claim 35, wherein the temperature detector comprises one of a temperature sensor and a thermistor.